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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/689,434	10/20/2003	Dong-Sik Cho	5649-1174	2811
7590	10/13/2005			
David K. Purks P. O. Box 37428 Raleigh, NC 27627			EXAMINER BEAULIEU, YONEL	
			ART UNIT	PAPER NUMBER
			3661	

DATE MAILED: 10/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/689,434

Applicant(s)

CHO, DONG-SIK

Examiner

Yonel Beaulieu

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 15 August 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-9 and 11-18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-9 and 11-18 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 7/5/05.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1 – 9 and 11 – 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kim US 6,735,518 B2) in view of at least an excerpt of the Cetus GPS Book.

Regarding claims 1, 3, 4, 9, 14 - 18, Kim teaches a navigation system and method (title/abstract) comprising a location indicator device (300) that is configured to transmit location information through a terrestrial wireless air communication link (200; see fig. 1), wherein the location device is geographically fixed (col. 8, lines 25 – 41) - the location information is based upon on the location of the device (col. 1, lines 28 – 42); a GPS reception module (1170) that is configured to determine location information based on a GPS satellite signal (col. 5, lines 13 – 30 at least; it is inherent GPS signal includes latitude and longitude values; note also col. 3, lines 42 - 45) and a wireless reception module (1120) – co-located with the wireless reception module - that is configured to determine its location relative to an object in a map based upon the location information from the device and the GPS module (col. 3, line 58 – col. 4, line 20 at least).

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Regarding claims 2 and 13, Kim teaches an image display device (1130) that is configured to display a map of roads and location relative to the roads (col. 4, line 53 – col. 5, line 5 at least), the image being a PDA (as noted in col. 36 – 54 at least).

Regarding claims 6 - 8, Kim further teaches the indicator device being located where a road intersects and branches into two or more roads (see at least fig. 7).

Kim teaches all of the above limitations except for explicit recitation of the GPS reception module outputting NMEA 0183 type location information.

However, GPS receivers are known to support NMEA 0183 information.

It would have been obvious to one of ordinary skill in the art at the time of the invention outputting NMEA 0183 type location information in the GPS art is standard and old and well-known as evidenced by the Cetus GPS Book.

Conclusion

Journals NMEA 0183 Protocol (see the Marimsys web site) and NMEA 0183 and GPS (see the Scientificcomponent web site) teach related NMEA 0183 and GPS protocols.


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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yonel Beaulieu whose telephone number is (703) 305-4072. The examiner can normally be reached on M-R, from 0900-1600.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas BLACK can be reached on (703) 305-8233. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Y. BEAULIEU
AU 3661


YONEL BEAULIEU
PRIMARY EXAMINER